

Applicant Muntermann
Attorney Docket (H)02MUN0018USP
US Application 10/049,934

In the Specification:

Please replace Paragraph [0004] of the Specification with the following replacement paragraph [0004].

[0004] (Currently Amended) This object is achieved by the invention in an exceptionally surprising way with the aid of a catheter for the ablation of biological, in particular of animal or human, tissue, including ablation of human myocardial tissue, said catheter comprising: at least one ablation or mapping electrode, wherein the at least one ablation or mapping electrode has a reduced number of electrical interference centres which generate microscopic electric potential differences, field strength maxima or microscopically different reaction capabilities at the electrode surface and wherein the at least one ablation or mapping electrode has an electrolytically treated surface. ~~catheter according to Claim 1 or 29, a method for catheter treatment according to Claim 10, and~~ This object is also achieved by a method for producing a catheter with improved electrical properties, the method comprising the following steps:

providing a catheter which comprises at least one ablation or mapping electrode,

providing a vessel with a solution which contains ions whose motion can be influenced by an electrical field,

immersing the at least one ablation or mapping electrode in the solution,

providing a further electrode in contact with the solution,

treating the at least one ablation or mapping electrode, by applying an electric voltage between the ablation or mapping electrode. ~~an apparatus for catheter treatment according to Claim 26.~~ This object is also achieved by Apparatus for catheter treatment, comprising:

a vessel for holding an electrolytic solution and regions of the catheter,

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an electrolytic solution in the vessel, wherein the ablation or mapping electrode and the
further electrode can be wetted by the electrolyte during conducting of the catheter treatment,
a voltage-generating or current-generating unit, and
a connection device for connecting at least one ablation or mapping electrode of the
catheter and a further electrode to the a voltage-generating or current-generating unit.